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Substitute for form 1448A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1**Complete if Known**

Application Number	10/533,764
Filing Date	May 4, 2005
First Named Inventor	William Brown
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ASZN0036-100 (100884-1P US)

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SM	A1	US- 3,940,386	02/24/1976	Szabo et al.	
SM	A2	US- 5,574,159	11/12/1996	Chang et al.	
SM	A3	US- 5,681,830	10/28/1997	Chang et al.	
SM	A4	US- 5,807,858	09/15/1998	Chang et al.	
SM	A5	US- 5,854,249	12/29/1998	Chang et al.	
SM	A6	US- 6,130,222	10/10/2000	Roberts et al.	
SM	A7	US- 6,680,318	01/20/2004	Brown et al.	
SM	A8	US- 6,680,321	01/20/2004	Roberts et al.	
SM	A9	US- 6,696,447	02/24/2004	Brown et al.	
SM	A10	US- 6,784,181	08/31/2004	Brown et al.	
SM	A11	US- 10/533,654	05/04/2005	Brown et al.	
SM	A12	US- 10/533,744	05/04/2005	Brown et al.	
SM	A13	US- 10/714,447	11/17/2003	Roberts et al.	
SM	A14	US- 10/477,642	11/13/2003	Brown et al.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
SM	B1	WO 86/04584	08/14/1986	Aktiebolaget Leo		
SM	B2	WO 91/07967	06/13/1991	Janssen		
SM	B3	WO 01/74805	10/11/2001	AstraZeneca AB		
SM	B4	WO 93/15062 9315063	08/05/1993	The Wellcome	p. 10, 11, 19	
SM	B5	WO 97/23466	07/03/1997	Astra Pharma Inc.		

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Considered

3/29/2006

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 6**Complete if Known**

Application Number	10/533,764
Filing Date	May 4, 2005
First Named Inventor	William Brown
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ASZN0036-100 (100884-1P US)

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		Number-Kind Code <sup>2</sup> (if known)			
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7 <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
SM	B6	WO	95/04051	02/09/1995	The Wellcome		
SM	B7	WO	98/28270	07/02/1998	Astra Aktiebolag		
SM	B8	WO	98/28275	07/02/1998	Astra Aktiebolag		
SM	B9	WO	99/33806	07/08/1999	Ortho-McNeil		
SM	B10	EP	0289227	11/02/1988	Syntex		

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3/29/2006

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet 3 of 12

**Complete if Known**

Application Number	10/533,764
Filing Date	May 4, 2005
First Named Inventor	William Brown
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	AS2N0036-100 (100884-1P D

Attorney Docket Number	ASZN0036-100 (100884-1P US)
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## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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		Country Code*	Number*Kind Code* (if known)				
SM	B11	EP	0283310	09/21/1988	Sankyo Company		
SM	B12	EP	0166302	01/02/1986	Polindustria		
SM	B13	EP	0133323	02/20/1985	The Wellcome		
SM	B14	GB	2210366	06/07/1989	American Home		
SM	B15	GB	2076403	12/02/1981	Selvi & C.S.p.A.		

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Signature**

Date Considered

3/29/2006

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 6

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Application Number	10/533,764
Filing Date	May 4, 2005
First Named Inventor	William Brown
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	AS2N0036-100 (100884-1P 1

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
SM	B16	FR	2696744	04/15/1994	Laboratoires		
SM	B17	DE	2431178	01/16/1975	Cermol S.A.		
SM	B18	DE	2900810	07/24/1980	Cassella AG		
SM	B19	JP	7-138230	05/30/1995			
SM	B20	WO	97/23466	07/03/1997	Astra Aktiebolag		

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Signature**

*[Handwritten signature]*

Date Considered

3/29/2020

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 6

**Complete if Known**

Application Number	10/533,764
Filing Date	May 4, 2005
First Named Inventor	William Brown
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ASZN0036-100 (100884-1P)

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## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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SM	B21	WO	92/04338	03/19/1992	The Up-John Co.		
SM	B22	EP	0624584	08/19/1998	Daiichi		
SM	B23	WO	02/094794	11/28/2002	AstraZeneca AB		
SM	B24	WO	01/45637	06/28/2001	AstraZeneca AB		
SM	B25	WO	01/46174	06/28/2001	AstraZeneca AB		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet	6	of	6
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**Complete if Known**

Application Number	10/533,764
Filing Date	May 4, 2005
First Named Inventor	William Brown
Art Unit	To Be Determined
Examiner Name	To Be Determined
Attorney Docket Number	ASZN0036-100 (100884-1P)

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SM	B26	WO	2005/066148	07/21/2005	AstraZeneca AB		
SM	B27	WO	2004/041801	05/21/2004	AstraZeneca AB		
SM	B28	WO	2004/041800	05/21/2004	AstraZeneca AB		
SM	B29	WO	03/029215	04/10/2003	AstraZeneca AB		

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Substitute for form 1449B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/533,764		
		Filing Date	May 4, 2005		
		First Named Inventor	William Brown		
		Art Unit	To Be Determined		
		Examiner Name	To Be Determined		
Sheet	7	of	9	Attorney Docket Number	ASZN0036-100 (100884-1P US)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SM	C1	Bilsky et al., "SNC 80, A Selective, Nonpeptidic and Systemically Active Opioid Delta Agonist," J. Pharmacol. Experi. Ther. 273:359-366 (1995)	
SM	C2	Takemori et al., "Selective Naltrexone-Driven Opioid Receptor Antagonists," Annu. Rev. Pharmacol. Toxicol. 32:239-269 (1992)	
SM	C3	Bilsky et al., "Characterization of Enantiomers of (+) BW373U86 and Related Compounds: Highly Selective Non-Peptidic Delta Opioid Agonists," Reg. Peptides 54:25-26 (1994)	
SM	C4	Calderon et al., "Probes for Narcotic Receptor Mediated Phenomena. 19. Synthesis of ... Opioid Receptor Agonist," J. Med. Chem. 37:2125-2128 (1994)	
SM	C5	Calderon et al., "Probes for Narcotic Receptor Mediated Phenomena. 23. Synthesis ... Opioid Receptor Ligands," J. Med. Chem. 40:695-704 (1997)	
SM	C6	Chang et al., "A Novel, Potent and Selective Nonpeptidic Delta Opioid Receptor Agonist BW373U86," J. Pharmacol. Experi. Therap. 267:852-857 (1993)	
SM	C7	Katritzky et al., "Benzotriazole-Mediated Arylalkylation and Heteroarylalkylation," Chem. Soc. Rev. 23:363-373 (1994)	
SM	C8	Kingsbury et al., "Synthesis of Structural Analogs of Leukotriene B and their Receptor Binding Activity," J. Med. Chem. 36:3308-3320 (1993)	
SM	C9	Lopez et al., "Exploring the Structure-Activity Relationships... Opioid Receptor Nonpeptide Agonist Ligand," J. Med. Chem. 42:5359-5368 (1999)	
SM	C10	Plobeck et al., "New Diarylmethylpiperazines as Potent and Selective Nonpeptidic Opioid Receptor Agonists with Increased In Vitro Metabolic Stability," J. Med. Chem. 43:3878-3894 (2000)	

Examiner Signature		Date Considered	3/27/2006
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		Application Number	10/533,764		
		Filing Date	May 4, 2005		
		First Named Inventor	William Brown		
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Sheet	6	of	9	Attorney Docket Number	ASZNO036-100 (100884-1P US)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SM	C11	Suggs et al., "Facile Synthesis fo 8-Substituted Quinolines," J. Org. Chem., 45:1514-1515 (1980)	
SM	C12	Zhang et al., "Probes for Narcotic Receptor Mediated Phenomena. 26. Synthesis ... Opioid Receptor Ligands," J. Med. Chem. 42:5455-5463 (1999)	
SM	C13	English Abstract for Reference B16 on PTO/SB/08A, Page 4	
SM	C14	English Abstract for Reference B17 on PTO/SB/08A, Page 4	
SM	C15	English Abstract for Reference B18 on PTO/SB/08A, Page 4	
SM	C16	English Abstract for Reference B19 on PTO/SB/08A, Page 4	
SM	C17	Burkey et al., "The Efficacy of Delta-Opioid Receptor-Selective Drugs," Medline Abstract for Life Sci. 62:1531-1536 (1998)	
SM	C18	Nagase et al., "The Pharmacological Profile of Delta Opioid Receptor Ligands, (+) and (-) TAN-67 on Pain Modulation," Medline Abstract for Life Sci. 68:2227-2231 (2001)	
SM	C19	Green, "Protective Groups in Organic Synthesis," pgs. 267-268 and 331 (1981)	
SM	C20	Abstract for HU 217619. A corresponding English language PCT application is cited as Reference B1 listed on PTO/SB/08A, Page 1	

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9

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**Complete if Known**

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William Brown

Art Unit

To Be Determined

Examiner Name

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Attorney Docket Number

ASZN0036-100 (100884-1P US)

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SM	C21	Abstract for HU 215847. A corresponding English language PCT application is cited as reference B2 on PTO/SB/08A, Page 1	
SM	C22	Nortey et al., "Piperazinyl Benzamidines: Synthesis and Affinity for the Delta Opioid Receptor," Bioorganic & Medicinal Chemistry Letters, Vol. 11, pgs. 1741-1743 (2001)	
SM	C23	Snyder et al., "Historical Review: Opioid Receptors," Trends in Pharmacological Sciences, Vol. 24, pgs. 198-205 (2003)	

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